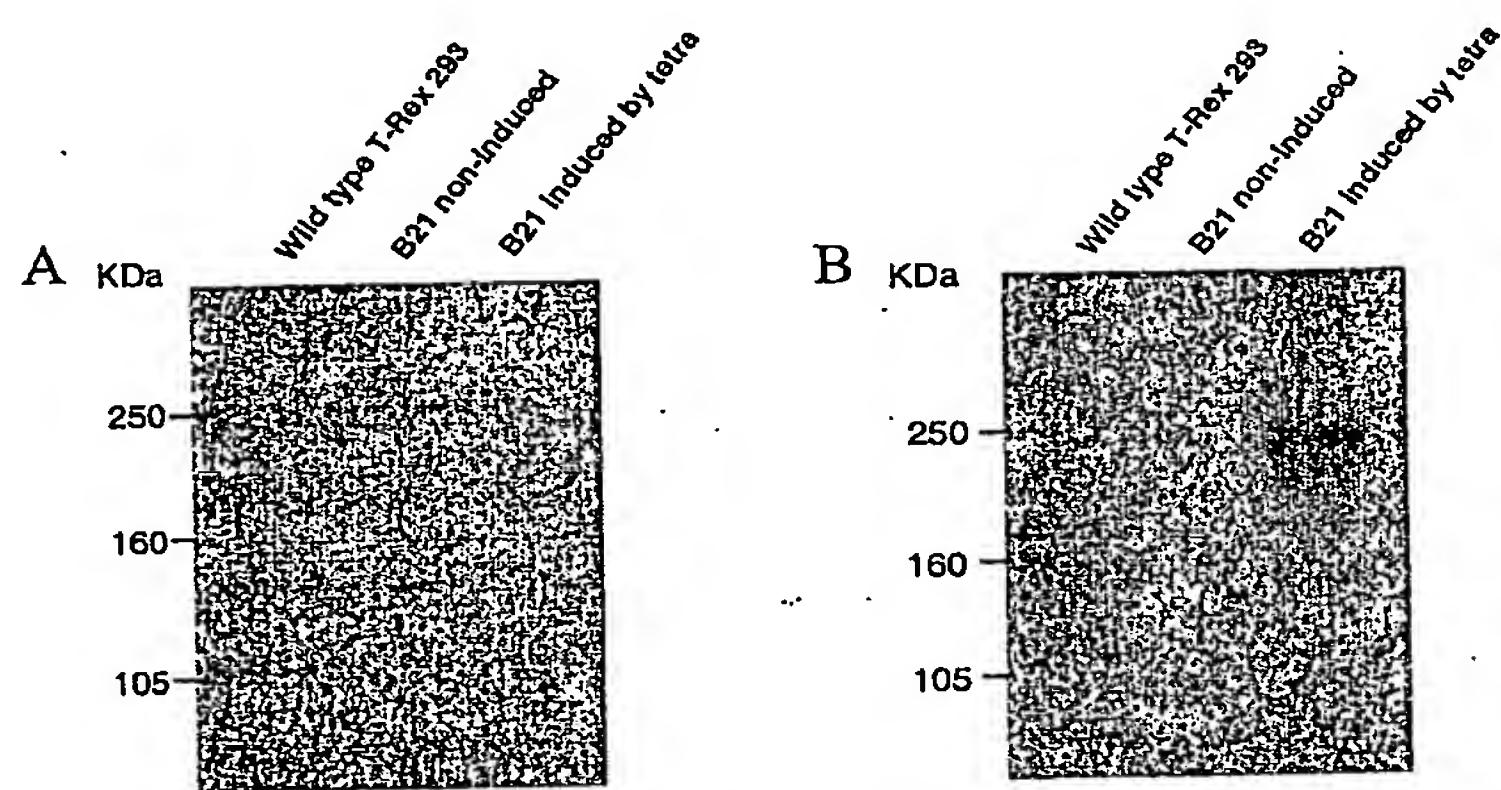


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FIGURE 1

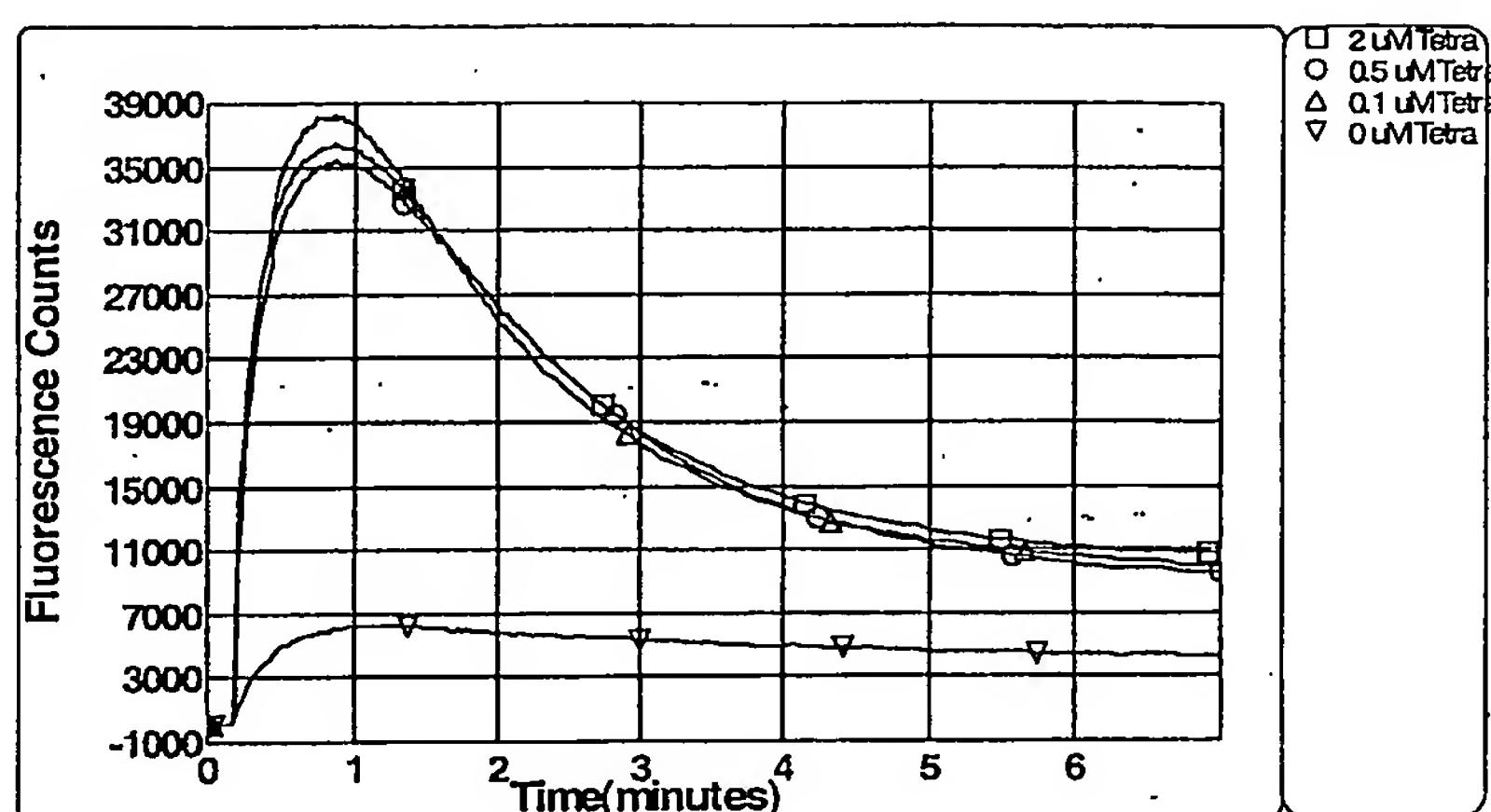
Western blot for alpha 1 I peptide-antibody (#732) in alpha 1I stable cell line.

Protein samples (20 µg/lane) prepared from the wild type T-Rex, non-induced B21 and induced B21 cells. (A) Preimmune control rabbit serum (1:500) (B) A protein band of approximately 240 kDa was recognized by human α 1I antisera (1:500) in α 1I transfected cells (B21) induced by 0.1 uM tetracycline.



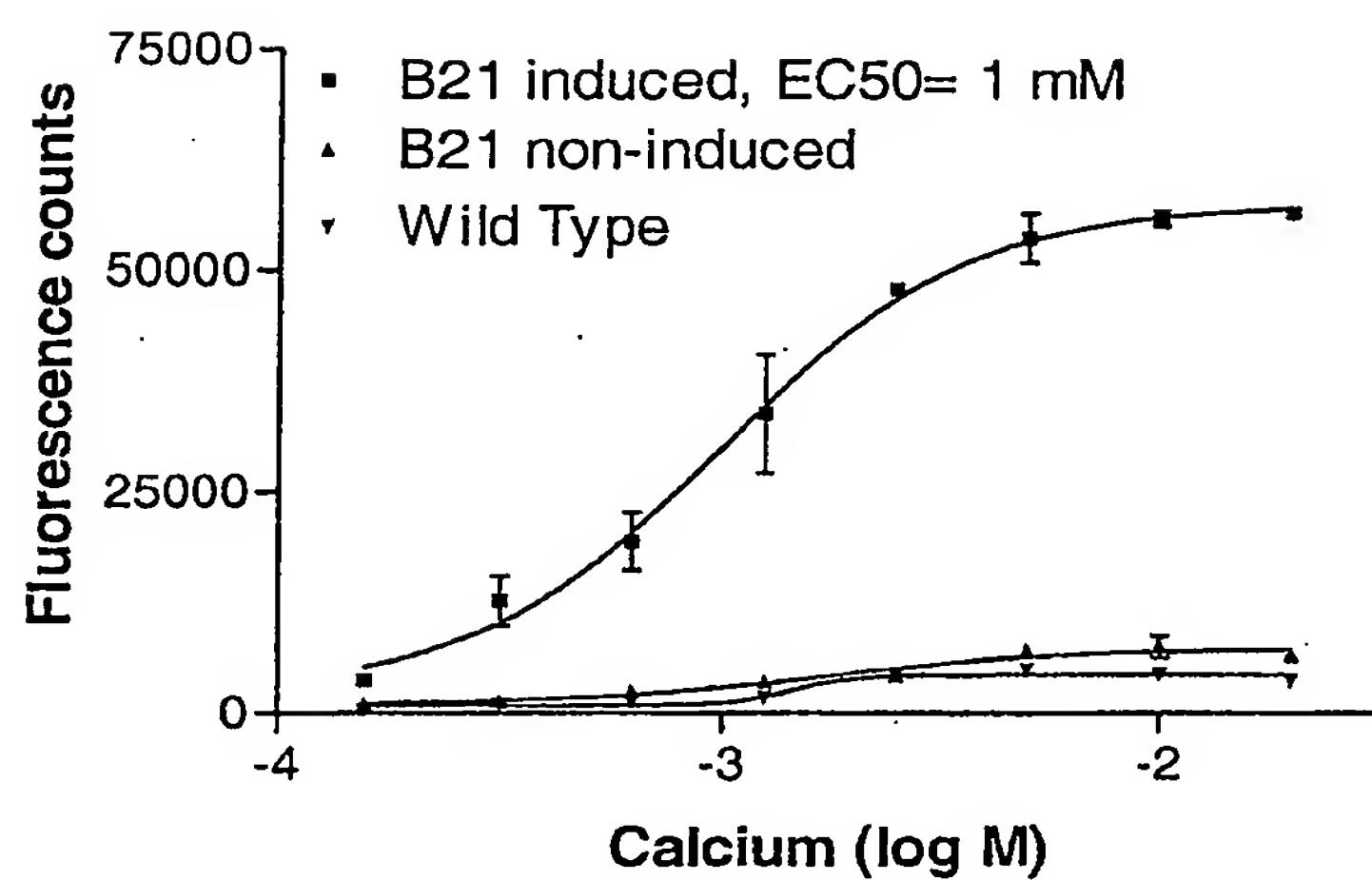
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FIGURE 2

Time course of calcium influx after addition of 5mM calcium in B21 cells



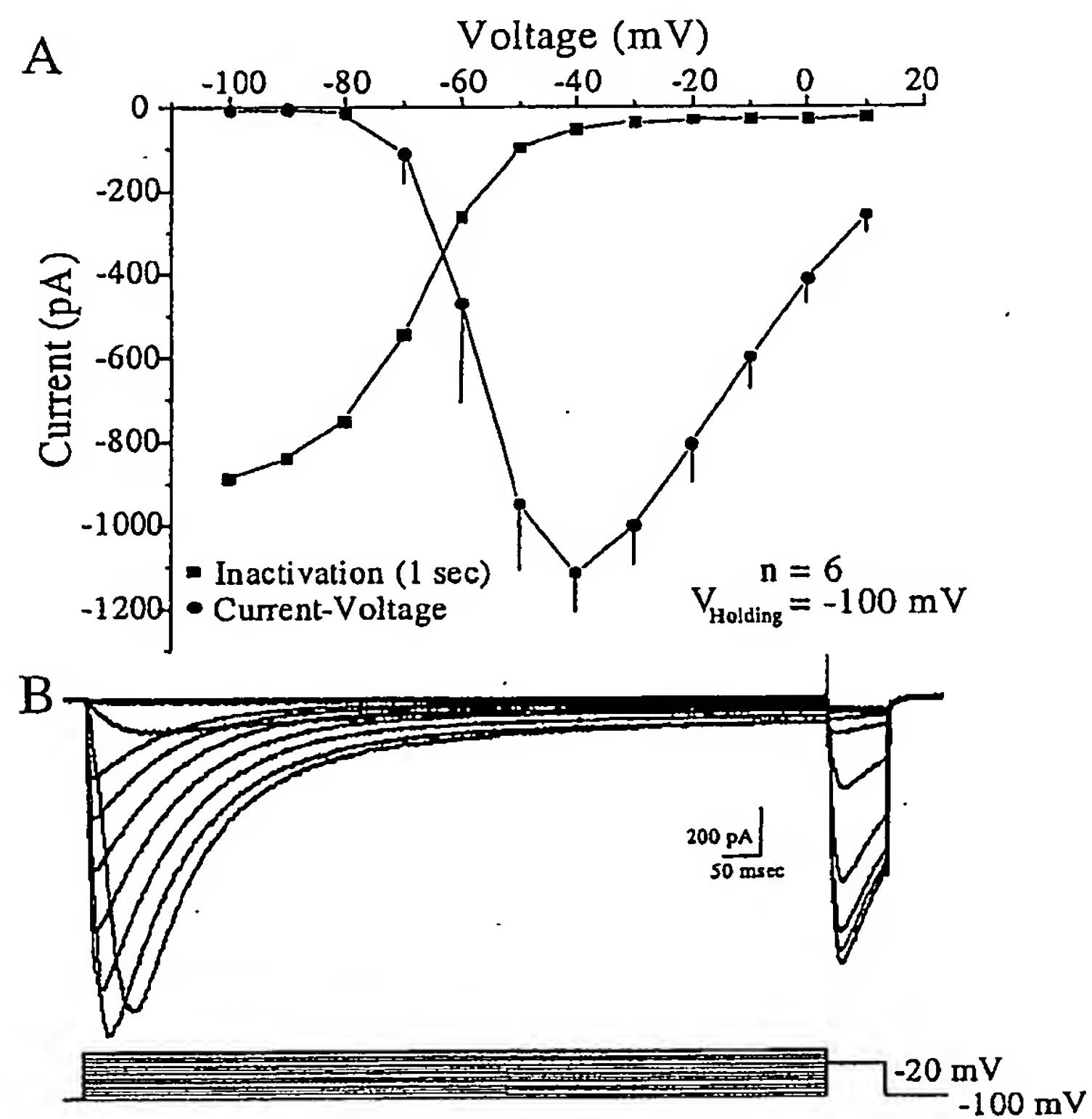
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FIGURE 3

Calcium influx in wild type cells and B21 cells



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FIGURE 4

Electrophysiological characterization of the α_{1I} channel activation and inactivation properties when expressed the T-Rex cell line.



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FIGURE 5

αII-1 and αII-2 Amino Acid Sequence Alignment

481		560
αII-1	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCQHEDGRRPSGLGSTDSQEGSGSGSSAGGEDEADGDGAR	
αII-2	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCQHEDGRRPSGLGSTDSQEGSGSGSSAGGEDEADGDGAR	
561		640
αII-1	SSEDGASSELGKEEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
αII-2	SSEDGASSELGKEEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
641		720
αII-1	NVVFTSMFALEMILKLAAGLFDYLRNPYNIFDSIIVII-----SIWEIVGQADGGLSVLRTFRLR	
αII-2	NVVFTSMFALEMILKLAAGLFDYLRNPYNIFDSIIVIIIRPPTAASYLYPGPALRDRSIWEIVGQADGGLSVLRTFRLR	
721		800
αII-1	VLKLVRFMPALRRQLVVLMKTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVPDRKNFDSSLWAIVTVFQI	
αII-2	VLKLVRFMPALRRQLVVLMKTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVPDRKNFDSSLWAIVTVFQI	

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FIGURE 6

α II-1 and α II-2 DNA Sequence Alignment

2161	2240
α II-1	GGTCTGGCTGTGCAGGGATGTGGCGGAGACGCGAGCCAAGCTGCGCGCATCGTGGACAGCAAGTACTTCACCGGG
α II-2	GGTCTGGCTGTGCAGGGATGTGGCGGAGACGCGAGCCAAGCTGCGCGCATCGTGGACAGCAAGTACTTCACCGGG
2241	2320
α II-1	GCATCATGATGGCCATCCTGGTAAACACCGTCAGCATGGGATCGAGCACGAGCAGCCGGAGGAGCTGACCAACATC
α II-2	GCATCATGATGGCCATCCTGGTAAACACCGTCAGCATGGGATCGAGCACGAGCAGCCGGAGGAGCTGACCAACATC
2321	2400
α II-1	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTGGCTTTGA
α II-2	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTGGCTTTGA
2401	2480
α II-1	CTACCTGCGTAACCCCTACAACATCTCGACAGCATCATTGTCATCATCAG-----
α II-2	CTACCTGCGTAACCCCTACAACATCTCGACAGCATCATTGTCATCATCAGGCCCTACTGCTGCCTACCTGTACC
2481	2560
α II-1	-----CATCTGGGAGATCGTGGGGCAGGCAGGGTGGCTGCGGTGCTGCGGACCTTC
α II-2	CTGGGCCTGCCCTGCAGGACCGCAGCATCTGGGAGATCGTGGGGCAGGCAGGGTGGCTGCGGTGCTGCGGACCTTC
2561	2640
α II-1	CGGCTGCTGCGCGTGCTGAAACTGGTGCCTTCATGCCTGCCCTGCGGCCAGCTCGTGGTGCTCATGAAGACCATGGA
α II-2	CGGCTGCTGCGCGTGCTGAAACTGGTGCCTTCATGCCTGCCCTGCGGCCAGCTCGTGGTGCTCATGAAGACCATGGA